

SEG



DEVELOPMENT & PRODUCTION FORUM

27-31 JULY 2008
UT RESEARCH CAMPUS
AUSTIN, TEXAS



Society of Exploration Geophysicists
The international society of applied geophysics

MEETING SCHEDULE

D&P FORUM SCHEDULE

SUNDAY, 27 JULY

3-6:30pm Registration—Embassy Suites Arboretum
6:30-8:30pm Ice Breaker—Embassy Suites Arboretum

MONDAY, 28 JULY

7:45am Bus pick up at Embassy Suites
8-8:30am Breakfast & Registration

■ SCALING I

8:30-9am **Blocking of Well Logs at the Reservoir Scale for Optimal Seismic Match**, *Pierre Thore*
9-9:30am **Fractal Heterogeneities in Sonic Logs and Low Frequency Scattering Attenuation**, *Thomas Browaeys*
9:30-10am **The Physical Basis of Reflectivity Dispersion**, *Christopher Liner*
10-10:30am Coffee Break
10:30-11am **Seislet Transform and Seislet Frames for Multiscale Seismic Data Analysis**, *Sergey Fomel*
11-11:30am **Scaling Between Crosswell and Surface Seismic Reflections**, *Thomas Morgan*
11:30am-12:30pm.. Lunch

■ UNCERTAINTY IN RESERVOIR MODELING

12:30-1pm **Structural Uncertainty: Discrete or Continuous Approach**, *John Waggoner*
1-1:30pm **Integration of Structural Uncertainties into Reservoir Grid Construction**, *Pierre Thore*
1:30-2pm **Uncertainty Implications in Modeling Flow in Fracture Environment**, *Arinze Okoli*
2-2:30pm Coffee Break

2:30-3pm **History Matching Using a Weighted Ensemble Kalman Filter and the Impact of Geological Uncertainty**, *Long Jin*
3-3:30pm **Reducing Uncertainty in Static and Dynamic Reservoir Modeling**, *Matthew Casey*
3:30-4pm **Heterogeneities at Different Scales and Seismic Upscaling**, *Shiyu Xu*
4-4:15pm Bus pick up for return to Embassy Suites

TUESDAY, 29 JULY

7:45am Bus pick up at Embassy Suites
8-8:30am Breakfast

■ SCALING II

8:30-9am **Reducing Uncertainty of Reservoir Prediction by Rescaling Seismic Data**, *Hongliu Zeng*
9-9:30am **Can we Ignore Upscale Uncertainty?** *Tapan Mukerji*
9:30-10am **Applications of Multiscale Seislet Frames for Seismic Data Decomposition and Regularization**, *Yang Liu*
10-10:30am Coffee Break
10:30-11am **Acoustic and Petrophysical Heterogeneities in a Clastic Deep-water Depositional System Implications for Upscaling from Bed to Seismic Scales**, *Roger Slatt*
11am-12pm **Field Trip - Texas Advanced Computing Center (TACC)**
12-1pm Lunch

■ UNCERTAINTY IN ROCK PHYSICS/ PETROPHYSICS

1-1:30pm **Uncertainty in Fluid Substitution using Gassman's Equation**, *Okechukwu Ilekwa*

TUESDAY, 29 JULY

- 1:30-2pm **Uncertainty Analysis of Well Logging Data in Reservoir Characterization**, *Padmakar Deo*
- 2-2:30pm **Uncertainty in Rock Physics Modeling: Impact on Seismic Reservoir Characterization and Monitoring**, *Alireza Shahin*
- 2:30-3pm Coffee Break
- 3-3:30pm **Estimating Uncertainty Associated with Gas-Hydrate Characterization from Electrical Resistivity Logs**, *Diana Sava*
- 3:30-4pm **Quantitative Intergration of Electrical Resistivity Logs and Seismic Velocities for Reducing the Uncertainty in Evaluating Deep-Water Gas-Hydrate Systems**, *Diana Sava*
- 4-4:30pm **Rock-Physics for 4D Applications by Integrating Well Data, Cores and Production Data**, *Dhananjay Kumar*
- 4:45pm Bus pick up for return to Embassy Suites
- 6:30-8pm Gala Dinner—At Buca di Beppo

WEDNESDAY, 30 JULY

- 7:45am Bus pick up at Embassy Suites
- 8-8:30am Breakfast
- **UNCERTAINTY IN TIME-LAPSE SEISMIC & RESERVOIR CHARACTERIZATION**
- 8:30-9am **Data Fusion: A Possible Way to Reduce Uncertainty in Reservoir Characterization**, *Long Jin*
- 9-9:30am **A Statistical Approach to Quantify the Detectability of the Dynamic Reservoir Properties Using Multi-Component Time-Lapse Seismic Attributes**, *Alireza Shahin*

- 9:30-10am **Integrated 4D Seismic Reservoir Characterization and Uncertainty Quantification in a Bayesian Framework**, *Tiacong Hong*
- 10-10:30am **Sensitivity Analysis of Multi-component Seismic Attributes to Fluid Content and Pore Pressure**, *Alireza Shahin*
- 10:30-11am Coffee Break
- 11:00-11:30am **Fault Imaging in a Hydrothermal Dolomite Reservoir: A Case Study**, *O.C. Ogiesoba*
- 12-1pm Lunch

■ CASE STUDIES

- 1:00-1:30pm **VSP as a Technique for Structure Interpretation**, *Emmanuel Oladapo*
- 1:30-2pm **Upscaling and Reservoir Modeling of Carbonate Reservoirs - Need for Incorporating Geomechanical Effects due to Production**, *Shiladitya Sengupta*
- 2:00-2:30pm **How Can we Benefit from Uncertainty?** *Tatyana Olneva*
- 2:30-3:00pm **Uncertainty Analysis for Anisotropic Tomography Using Iterative Eigendecomposition** *Konstantin Osypov*
- 3-4:30pm Coffee Break & **Field Trip to 'Core Examples of Reservoir Heterogeneity'**
- 4:30pm Bus pick up for return to Embassy Suites



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THURSDAY, 31 JULY

- 7:45am Bus pick up at Embassy Suites
- 8-8:30am Breakfast
- **UNCERTAINTY IN RESERVOIR CHARACTERIZATION: TOOLS, TECHNIQUES, WORKFLOWS**
- 8:30-9am **Stalking Uncertainty with Bayesian Reservoir Characterization and Visualization**, *Ron Masters*
- 9-9:30am **Model-Based Uncertainty Quantification and Implications for Value of Seismic Data**, *Richard Gibson*
- 9:30-10am **Resolution of Uncertainty in Resistivity Based Saturation using Pseudo Capillary Pressure Saturation in a Typical Niger Delta Field**, *Adeoti Lukumon*
- 10-10:30am Coffee Break
- 10:30-11am **Decision Focused Uncertainty Management**, *Rob Cordray*
- 11:00am-12pm Closing Remarks, What have we learned?
- 12pm Bus pick up for return to Embassy Suites

SEG ORGANIZING COMMITTEE

Bob Hardage, Chairman
Larry Lake
Hongliu Zeng
Diana Sava
Charlotte Sullivan

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